

IN THE SPECIFICATION

Replace the paragraph beginning on Page 12, line 14, with the following amended paragraph:

The above-described steps can be carried out by the viewing system of the invention. FIG. 4 shows a diagram of a medical viewing system 150 according to the invention for carrying out all the steps of the above-described method. The system has means 151 for acquiring digital image data of a sequence of images, and is coupled to computer means 153 for processing these data according to the processing method cited above. The medical viewing system can be used in the intervention room or near the intervention room for processing real time images. Steps of the present method can be applied on stored medical images, for example for estimating medical parameters. The medical viewing system provides the image data by connection 157 to the system 153. The system provides processed image data to display means 154 and/or storage means 156. The display means 154 may be a screen. The storage means 156 may be a memory of the system 153. ~~Said~~ The storage means 156 may be alternately external storage means.

Replace the paragraph beginning on Page 12, line 26, with the

following amended paragraph:

The data processing means 153 is typically associated with a visualization device, such as a monitor 154, and an input device 155, such as a keyboard, pointing device, such as a mouse, etc. operative by the user so that he can interact with the system. ~~Icons~~—icons may be provided on the screen to be activated by mouse-clicks, or special pushbuttons may be provided on the system, to constitute control means 158 for the user to control the processing means of the system. The data processing device 153 is programmed to implement the method of processing medical image data according to invention. In particular, the data processing device 153 has computing means and memory means to perform the steps of the method. A computer program product having pre-programmed instructions to carry out the method may also be implemented. This image viewing system 153 may comprise a suitably programmed computer, or a special purpose processor having circuit means such as LUTs, Memories, Filters, Logic Operators, that are arranged to perform the functions of the method steps according to the invention.